

SEA PAC '09

June 5th, 6th and 7th, 2009

Seaside Convention Center, Seaside Oregon

On the Beautiful Northwest Ocean Beach

Al Berg, W7SIC
503.816.7098

PO Box 25466

Portland, OR 97298-0466

Will Sheffield,
N7THL
503.642.7314

◀ www.seapac.org ▶

I want to be part of SEA-PAC '09. Please send me:

☐ Registration Form ☐ By email
☐ By US Mail

☐ Flea Market Information☐ Commercial Exhibit Rates and Contract

☐ I would like to present a Seminar:
Topic _____

Name _____ Call _____

Address: _____

City _____ State _____ Zip _____

Telephone _____

Email Address _____

**Fill out this form — Leave at the Registration Desk
to receive information on SEA-PAC '09.**

SEA  PAC



SEA PAC



26th Year

Northwestern Division ARRL Convention



Seaside Convention Center Seaside, Oregon

May 30th, 31st and June 1st, 2008

Web: <http://www.seapac.org>

Presented by
Oregon Tualatin Valley
Amateur Radio Club



SEA PAC COMMITTEES

EXECUTIVE COMMITTEE

Al Berg W7SIC
Will Sheffield N7THL
Wayne Schuler AI9Q

TREASURER

Rick Barton, KD7THV

EXHIBITORS

Al Berg W7SIC

EXHIBITORS

HOSPITALITY

Betty Mickley, N7REX
Frances Adams KB8PRL
Scott Adams KB8PRS
Charles Mickley Jr.
Molly Mickley
Joe Boyd N7VZS
Ann Boyd
Dinah Wells

EXHIBIT SET-UP

Cindy Kenyon KC7UJD
Jerry Kenyon KB7LNR
Wes Allen, K7WWG
Debbie Allen
Ivan Look, N7PRM
Laura Look
Kathy McClanahan, N7YBN
Richard McClanahan, KC7GBU
Geoff Apgar, W7JEZ
Steve Brice, NA7T
John Poland
Bill Morris, W7IH
Steve Tarr, KD7MRX
Michael Williams, N7RDV
Dave Strangland, KD7RTE

MEAL ARRANGEMENTS

Al Berg W7SIC

FLEA MARKET

Lynn Hurd WB7UNU
Tom Hill WA3RMX
Jack Smithson KA7HOJ
Stan Griffiths W7NI

PRIZE COMMITTEE

Darwin Durr K7PSD
Al Berg W7SIC
Everett Curry W6ABM
Jeff Durr KA7AKU
Mike Durr KA7PWZ
Jim Schaeffer KB7ADH
Gavin Silaski, KC7UIL
Mel Sutton KB7PVW
Ron Remsen, W7YOW

REGISTRATION

Will Sheffield N7THL
Rick Barton, KD7THV
Mary Berg N7TRW
Kathy Clawson
Jerry Sheffield, KC7EKT

V.E. TESTING

Carl Clawson WS7L
John Anderson KA7BRZ
Gordon Girtton W6NW
Anne Grimm KA7TON
Claire Johnson N7CM
Emie Johnson K7EAJ
Jerry Miller NB7PX
Jim Monaghan N7HKO
Rich Morgan KD7GIE

SEMINARS

Hoodview A.R.C.
Ed Clulow N7TL
Jan Maggs, KA7HNP
Ken Clulow, KA7VQH
Denny Doolittle, WB7UFJ
Bill Maggs, WB7DLM
Joe Michaud, N7HA
Pat Michaud, W7RED
Greg Phillips, K7GAP

SECURITY

Clark County A.R.C.
Bruce Bullis, KG6CIJ
Eric Keerbs, AD7HM

TALK-IN STATION

Sunset Empire A.R.C.
Marque Marriott N7LWQ
Bernie Gildner KD7UDX
Don Hillgaertner WA7TEM
Dave Klinger W7DEK
Alene Linehan KA7CXP

WEB SITE

Rox Heath KD7OHE
Bob Heath KD7OHF

MAILER & PROGRAM

Luther Brisky, KC7KVL

SEA PAC CONTENTS

Convention Schedule of Events	Page 2
Chuck Mickley Scholarship	Page 3
OTVARC Special Event Station	Page 3
Exhibitors	Page 4
Banquet	Page 5
Prize Donors.....	Page 6
Prizes	Page 7
Seminar Schedule.....	Page 9
Seminar Topics	Page 10
Meetings	Page 14
RAGS Test Bench	Page 14
Committees	Page 16
SeaPac '09 Form	Back Cover

V.E. TEST SESSION

Testing at Our Saviour's Lutheran Church—East Parish Hall
(North—across the street from the Convention Center)

One Session—Saturday at 9 AM

Pre-registration requested. Walk-ins — Space Available

Express your appreciation to these volunteers. They make SEA PAC '08 Possible.
Committee Chairs are listed above in italics

SCHEDULE OF EVENTS

Friday, May 30

Registration	11:00 AM – 8:00 PM
Exhibitor & Flea Market (Setup Only)	11:00 AM – 8:00 PM
Workshop	1:00 PM – 5:00 PM

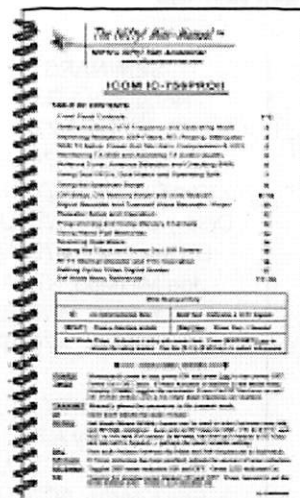
Saturday, May 31

Exhibitor/Flea Market Set-Up	7:30 AM – 9:00 AM
Registration	8:00 AM – 4:30 PM
Exhibits & Flea Market	9:00 AM – 4:30 PM
Snack Bar	9:00 AM – 4:30 PM
VE Exams (Our Saviour's East Parish Hall)	9:00 AM – NOON
Seminars (Seaside & Riverview Rooms)	10:00 AM – 5:00 PM
Hourly Prizes	10:00 AM – 3:00 PM
DX Luncheon (Best Western Oceanview)	11:30 AM – 1:30 PM
YLRL Luncheon (Oceanview Fireplace Room)	11:30 AM – 1:30 PM
ARRL Forum (Seaside A&B)	1:00 PM – 2:15 PM
Special SEA-PAC Prizes	2:30 PM
Pre-Banquet Happy Hour (Convention Lobby)	6:30 PM – 7:15 PM
SEA-PAC Banquet (Convention Center)	7:15 PM – 9:30 PM

Sunday, June 1

Registration	8:30 AM – 12:00 PM
Exhibits & Flea Market	9:00 AM – 1:00 PM
Snack Bar	9:30 AM – 12:30 PM
Hourly Prizes	9:00 AM – 1:00 PM
Special SEA-PAC Prizes	10:30 AM
Major SEA-PAC Prizes	1:00 PM – 2:00 PM
Convention Closes	2:00 pm

Radio Setup Guides



Programming Guides For:
**Kenwood, Icom, Yaesu,
Elecraft and Ten-Tec Radios**

Nifty! Quick Reference Guides are designed to confidently let you program your transceiver no matter where you are. Color printed and fully laminated.

Condensed step-by-step procedures
Simplify Setup and Operation

Radio Pouches

Complete line of Leather & Neoprene Radio Gloves and Pouches for HT's and other radios.



Nifty!

Ham Accessories

1601 Donalor Drive • Escondido, CA 92027
(760) 781-5522 • www.niftyaccessories.com

MEETINGS AT SEA-PAC

SEA-PAC provides the SEA-MIST Room for these meetings.

Meetings are scheduled by, and the responsibility of, the organizations listed.

Saturday, May 31st

1:00 PMOregon ARES..... Wayne Jack, KK7TT
3:30 PMOregon Section Cabinet..... Bonnie Altus, AB7ZQ

Sunday, June 1st

10:00 AMARRL NW Division Cabinet Jim Fenstermaker, K9JF

RAGS Test Bench

As a service to flea market buyers, the Radio Amateurs of the Gorge (RAGS) provides a test bench. Equipment includes a power supply, speaker, voltmeter, service monitor, frequency counter, oscilloscope and watt meters. Buyers and prospective buyers are encouraged to make use of this service to check out flea market treasures and those unbelievable bargains.

Neither RAGS nor SEA-PAC accepts responsibility for the condition or operability of any equipment, nor can they be held responsible for equipment damage as a result of use of test gear.

EMBROIDERED HAM HATS

HOTPRESS T-SHIRTS

HAM HATS MADE BY HAMS

20406 RHODDY DR. E BONNEY LAKE WA 98391

253-862-8322 1-800-862-1221

www.hotpresstshirts.com

COMPUTERIZED EMBROIDERY

NOW ACCEPTING PayPal ON LINE

SERVING HAMS SINCE 1994

WELCOME

SEA-PAC, the Northwestern Division ARRL Convention, is sponsored by the Oregon Tualatin Valley Amateur Radio Club. Co-Sponsors include Clark County Amateur Radio Club, Hoodview Amateur Radio Club, and Sunset Empire Amateur Radio Club.

Thanks to convention volunteers for their assistance. We invite everyone to enjoy themselves to the fullest and be a part of making this event a success.

OTVARC Special Event Station

Special Event Station W7OTV is operating in the vendor area (Riverside) in celebration of the 30th Anniversary of The Oregon Tualatin Valley Amateur Radio Club. The club was formed in May, 1978 as a "full-service" amateur radio group based in Washington County, Oregon. It is a special service club related to ARRL and carries out its mission to advance the Amateur Radio Service through: education and training of new and licensed amateurs; public service and emergency communication; nets, contests and meetings; and through social events. Nearing two-hundred members, the club is primary club sponsor of SEA-PAC. Come by the station and get in the Special Event W7OTV log.

2008 Chuck Mickley Memorial Scholarship

Patrick Mohr has always loved electronics and "fixing" problems. His mom recalls he was 4 years old and she was having a computer error message appearing on her screen. Patrick exclaimed. Patrick began taking classes at the local community college when he started seventh grade.

Patrick's interest in Ham Radio started when he was a cub scout. For his radio merit badge, his den visited a ham with a satellite system. It was on that day that he decided to get his ham radio license. A few months later, at the age of 11, Patrick, his dad, and mom all passed their technician licenses and became Hams. Patrick's favorite part of ham radio has been in emergency services with his dad. He has also taken the emergency communications class. Just last year he received his General License.

Patrick is now at OIT in Klamath Falls, studying for a double major in hardware and software engineering. He also plans on earning a major in math. Last year he received a scholarship from FAR (Foundation for Amateur Radio) and from the Data Processing Management Association in Portland. He is very honored to receive this scholarship from OTVARC, the club which sponsored the Willamette Valley Youth net and has helped so many young people develop their interests in amateur radio.

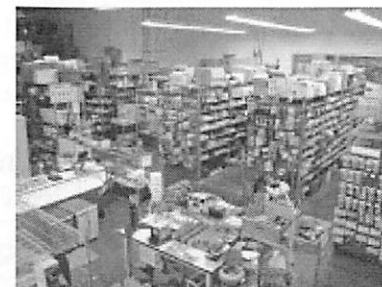
SEAPAC EXHIBITORS

A Better T-Shirt	HRO (Ham Radio Outlet)
ACN Reps.	ICOM America
Amateur Radio Relay Group	Kenwood U.S.A.
American Red Cross - Oregon Trail Chapter	KBFD Pacific Radio
Arcom Communications	Larry's Antennas LLC
ARES / RACES	US Navy/Marine Corps MARS
ARRL	NCG/Comet Co.
ARRL 7th QSL Bureau	Nifty Ham Accessories
Badge Boys	OTVARC
Battery Tech Inc.	Providence Health Systems
Books Etc.	Rescue Tape NW
Buddipole Antennas	Risler R&D
Cascade Radio Club	Rose's Covers and Cases
Clark County ARC	SurplusGizmos.com
Cookie Lee Jewelry	Tarheel Antennas
DC Power LLC	Tigertronics
Elecraft	Ventenna Co.
Flex Radio Systems	Vertex Standard (Yaesu)
Fue Enterprises	WB0W, Inc.
Hotpress Ham Hats	Western Case Company
	YLRL

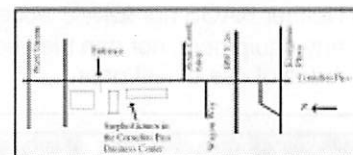
Due to publication deadlines we apologize for any changes or omissions.



We sell the gizmos that bring your ideas to life.



**Have you seen the new
SurplusGizmos?
We have more hi tech
gizmos than ever before.**



From our 8800+ sq. ft. retail store we serve the community with full service Hi-Tech Parts and Supplies. We leverage both new and surplus suppliers to give you the best value in products and prices.

Some think outside the box, we don't believe in the box. Utilize our ingenuity, skills, gizmos, and great prices to make your workload and pocket book easy. From the basic building blocks, to machines and kits, we stock the widest range of Gizmos in Oregon. Give your imagination a boost and come in or check out the web page.

New robot kits for every age

Introduction kits	\$10
Robot Arm kits	\$54
<u>A full range of LED's</u>	
1.8mm	\$.40
3mm	\$.40
5mm normal	\$.20
5mm hi brightness	\$.50
5mm 1/2 watt	\$1.20
5mm UV	\$.95
10mm	\$.60
1 watt	\$3.60
3 watt	\$7.75

multi color RGB	\$1.50
USB Oscilloscopes	\$270
10 mhz Oscilloscope	\$160
20 mhz Oscilloscope	\$270
<u>Peltier cooling modules</u>	
30x30x3.3mm	\$8.50
25x25x3.7mm	\$7.75
40x40x	\$15.50

Project boxes plastic
over 17 sizes in 3 styles
From \$2.45 to \$11.85
50ohm 150watt resistor \$5

<u>Atmel Microcontrollers:</u>	
ATtiny12 8 pin	\$1.90
ATtiny45 8 pin	\$2.25
ATtiny2313 20 pin	\$2.40
ATmega8 28 pin	\$3.60
ATmega32 40 pin	\$8.00

ATmega8 Dev Board	\$15.95
Vmusic2 module	\$37.25
add sound/words to any gizmo	

<u>Test Cables:</u>	
DMM test probes	\$1.75
BNC to mini-grabber	\$8.50
Mini-grabber to grabber	\$2.75
10 pack alligator to gator	\$4.50
60mhz scope probe	\$20.00
200mhz scope probe	\$41.00



SurplusGizmos.com, LLC 503.439.1249
5797 NW Cornelius Pass Rd.
Hillsboro, OR 97124
lat: 45.562431 & long: -122.896434

New Ideas on HF Verticals for the Low Bands

Ken Glanzer K7GCO

SAT 3:00 PM

Seaside A&B

This year Ken will cover radials, elevated and folded to improve performance, wider frequency coverage on shortened 160 Meter antennas and improving top-hat loading on verticals. He has some thoughts on quarter wave vs. half wave vertical performance. You will come away with a better understanding of antennas and feed lines and some practical ideas to apply at your station.

NTS Training - Let's Send a Message Kristin Tomson K7KWT

SAT 3:00 PM

Seaside C

Newbies or old-timers join your fellow hams in a class to practice traffic handling. Subjects covered in an easy-to-understand interactive style will include: repeaters, frequency, net control, call signs, check-ins, dictation and messages using various forms. All levels welcome. Kristin holds a general class ticket and enjoys introducing people to the hobby.

Ham Radio and the Law

Phil Kane K2ASP ARRL Volunteer Counsel

SAT 3:00 PM

Riverview A

Phil, a lawyer and an engineer, is a F.C.C. veteran working many years in the San Francisco Office. He is ready to discuss the many legal aspects of our hobby such as part 97, CCR, and interference issues. Phil says he has a couple of local cases that you might find of interest.

Portable Antennas for Suitcase DX-peditions

Bud Drummond W3FF

SAT 3:00 PM

Riverview B

It's a thrill to think that any one of us could go to a desert island and put a really rare one on the air, but few actually have the means to do that. The same components (not only antennas but batteries, great rigs, accessories, etc.) can be used for working lighthouses and small islands, of course.

Making your Field Day a Success Lisa Bloomquist, KE7HPW

SAT 3:00 PM

Riverview C

Lisa, the Public Information Officer for Clark County Amateur Radio Club, will be speaking on making your Field Day Event a huge success. Last year her efforts in publicity for the club brought media coverage by television and newspapers. Her efforts gathered participants for their Field Day in the 100s. Come hear the methods you can use to make Field Day a popular event in your community.

BANQUET SPEAKER

The ~~SEA-PAC~~ banquet is a time to reacquaint yourself with hams from around the division, the nation and the world. Our guest speaker at this years banquet is Riley Hollingsworth, K4ZDH, Special Counsel for the Spectrum Enforcement Division of the FCC's Enforcement Bureau.

Hollingsworth, 61, has served in several prominent positions within the FCC's Wireless Telecommunications Bureau. In 1987, he managed the FCC 800-MHz Lottery Task Force. From 1989 to 1994, he served as deputy chief of FCC Private Radio Licensing and later was assistant bureau chief in the WTB. In 1992, Hollingsworth was a member of a US Department of State delegation to Romania to discuss radio licensing in the US and opening markets to US manufacturers. In 1994, he co-chaired an FCC task force on PCS broadband and narrowband licensing. Hollingsworth joined the former Compliance and Information Bureau as Legal Advisor for Enforcement in 1998 and became Special Counsel responsible for Amateur Radio enforcement and Land Mobile interference resolution within the FCC's Enforcement Bureau. Hams across the US have credited Hollingsworth with helping to reduce malicious interference and other problem behavior, both on and off the air.

A ham for 48 years, Hollingsworth holds an Advanced class ticket and is a graduate of the University of South Carolina and Wake Forest University Law School. Hollingsworth is a member of the ARRL and the Quarter Century Wireless Association. In 1996 he received the Special Achievement Award at the Dayton Amateur radio convention. He also enjoys collecting vintage Amateur Radio equipment and has set up several older transmitter-receiver combinations at his home along with his modern gear.

Two of his personal suggestions for Amateur Radio Operators include,

"Operate as if the whole world is listening. It is!"

"Make sure that, on your watch, Amateur Radio never becomes obsolete."

Don't miss this event, get your ~~SEA-PAC~~ event and banquet tickets today as seating is limited.

Banquet Prizes

Icom IC-V82 (D-Star) 2M HT

Kenwood TH-K2AT 2m HT

SEA-PAC '08 PIN

Congratulations to Melissa Scott, winner of the 2008 ~~SEA-PAC~~ Pin Contest. Be sure to pick up your 2008 Pin (\$5.00) at the Registration Desk. Pins from some previous ~~SEA-PAC~~ Conventions are also available for purchase.



PRIZE DONORS

BUSINESS SPONSORS/PRIZE DONORS

Best Western Oceanview Resort - Seaside, OR
Camp 18 Restaurant & Gift Shop - Seaside, OR
Circle Creek RV Park - Seaside, OR
Dooger's Seafood & Grill - Seaside, OR
Ebbtide Enterprises - Portland, OR
Gearhart by the Sea - Gearhart, OR
Inn At Seaside - Seaside, OR
McKeown's Restaurant - Seaside, OR
Motel 6 - Seaside, OR
Nehalem Bay Wines - Nehalem, OR
Norma's Ocean Diner - Seaside, OR
Pig 'N Pancake - Seaside, OR
Portland Fudge - Seaside, OR
Pulse Larsen Antenna - Vancouver, WA
Sam's Seaside Café - Seaside, OR
Seaside Chamber of Commerce - Seaside, OR
Seaside Helicopters - Seaside, OR
Shilo Inns Suites Hotels - Portland, OR
Shilo Ocean Front - Seaside, OR
Sundowner Motor Inn - Seaside, OR
The Pizza Harbor - Seaside, OR
Venice RV Park - Seaside, OR
Vista Sea Café - Seaside, OR

CONVENTION VENDORS/PRIZE DONORS

Alinco Amateur Distribution, Inc. - Conroe, TX
Ham Radio Outlet - Portland, OR
Yaesu Amateur Products - Cypress, CA
Kenwood USA Corp. - Suwanee, GA
Larry's Antennas
A Better T Shirt
DC Power
Fue Enterprises
Battery Tech
Flex Radio
Nifty Ham Accessories
Hot Press Ham Hats
BuddiPole
Badge Boys
Surplus Gizmos
Cookie Lee Jewelry

Building Your Own Equipment

SAT 11:00 AM

Jeff Damm WA7LMH

Seaside C

Many amateurs get education and enjoyment by making their own equipment for use in their stations. Jeff will show you how to get in on this part of the hobby. You will learn terms like perf board, dead bug and Manhattan and where to order your parts for your first project. Think you can't build. Jeff may just change your mind.

ARRL Forum

Allen Pitts W1AGP ARRL Media Relations Manager

Jim Fenstermaker K9JF Northwest Division Director

William Sawders K7ZM Northwest Division Vice Director

SAT 1:00 PM

Seaside A&B

An opportunity to meet Jim, Bill and Allen and find out what the ARRL has planned for the future as well as an opportunity to express your opinion on policy.

Amateur Radio Training

SAT 1:00PM

Delvin Bunton N7QMT

Riverview A

To help Amateur Radio grow and to help your club grow there is a need to develop and schedule training opportunities for the public to attain their license and continue to grow in the hobby. There are a number of folks in the Division who teach classes successfully. This is a forum to share ideas on how to arrange classes and teach more effectively.

HF SKYWARN Net - Pendleton

SAT 1:00 PM

Alan Polan KE4TRR

Riverview B

Alan, a meteorologist and Amateur Radio Program leader in the Pendleton office will describe their operation, how it works and share experiences. He emphasized that it only applies to his office while other offices may do things differently. If you are interested in weather or curious about weather spotting this should be an interesting seminar.

Amateur Television - ATV

Ed Mellnik, WB2QHS President Oregon ATV Association

Dave Gettman KA7WOF

SAT 1:00PM

Riverview C

Ed and Dave will put on a presentation on two way ATV communications direct and through repeaters. He will show and explain the equipment and techniques to get into this part of the hobby.

Emergency Preparedness Rose Bottle American Red Cross

SAT 1:00 PM

Seaside C

Fires, floods and other natural or man made disasters can strike often without warning. Are you prepared to protect your home and family? Learn what steps to take now.

Due to publication deadlines we apologize for any changes or omissions.

SEMINAR TOPICS

Please silence audio signals during the seminars.

This year we again hope that you find some seminars to attend that catch your interest, and open the doors to new ham radio adventures. The presenters below volunteer their time to share with you their knowledge and skills on the many facets of this great hobby. What ever your interests are, you're sure to acquire a great deal of new knowledge to take home.

Listed below is an overview of the seminars we are presenting this year. This is to help you select the seminars of interest. When attending seminars, be sure to thank the presenter when it is over.

D-STAR (Digital Smart Technology for Amateur Radio)

Ken Wilhelmi N7QQU Washington Co. ARES

SAT 10:00 AM

Seaside A&B

If you are hazy about D-STAR, have a few questions or completely in the dark, this seminar is for you. I attended this seminar in Hillsboro for emergency managers and learned a great deal about the capabilities of this system. I recommend this seminar for those wanting to learn more about it.

The 10 Best Ideas

Allen G Pitts, W1AGP Media & PR Manager

SAT 10:00 AM

Riverview A

You want to help ham radio grow and be noticed, but have limited time and resources. Besides, you're just a volunteer, right? Make the most of what you have with the 10 best PR ideas that have worked around the country. You don't need to reinvent the wheel – just steal it!

Getting into Digital

Ed Clulow N7TL

SAT 11:00 AM

Riverview C

This is a beginners guide to digital communications. If you are looking for information about how to get started this seminar is about the hardware and software requirements you will need as well as a demonstration of PSK/31/63, RTTY MFSK and other modes.

ARES/RACES in Oregon

Vincent Van Der Hyde K7VV

SAT 11:00 AM

Riverview B

An introduction to ARES/RACES in Oregon (structure, training, 'what we do' etc, ARMAT teams), then talk about the new state plan, and finally the use of Winlink 2000 for digital emergency communications and the development of a statewide system.

SEAOPAC PRIZES

ALL PRIZE MODELS SUBJECT TO CHANGE

Sunday, 1:00 - 2:00 pm

Need Not Be Present

Icom IC 706 Mark II G (HF/VHF/UHF)

Kenwood TM-V71A Dual Band Mobile

Alinco DR-635 Dual Band Mobile

MUST BE IN CONVENTION CENTER — None by Proxy

42" Plasma Flat Screen HDTV

Icom IC-92AD (DStar) Dual Band HT

Kenwood TH-F6A Tri Band HT

Early Early Bird Prize

Registration postmarked by February 16, 2008

To be eligible - Need Not Be Present

VX6R Tri Band HT

Early Bird Prize

Registration postmarked by May 15, 2007

To be eligible - Need Not Be Present

Icom IC ID800H (DStar) Dual Band Mobile

Yaesu VX-3R Dual Band HT

HOURLY PRIZES

Unclaimed prizes are re-issued! — None by Proxy

**Hourly prizes posted for two hours
in the lobby and on stage**



**12 STORE BUYING POWER FOR YOU
AND ON-LINE ORDERING TOO!**

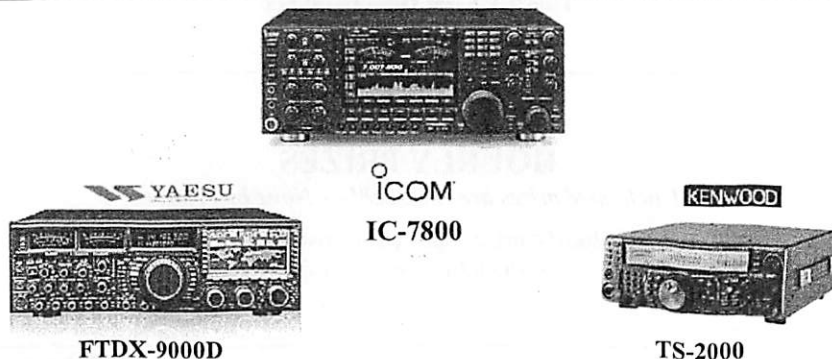
<http://www.hamradio.com>

ANAHEIM, CA - ATLANTA, GA - DENVER, CO - NEW CASTLE, DE - OAKLAND, CA - PHOENIX, AZ
PORTLAND, OR - SALEM, NH - SAN DIEGO, CA - SUNNYVALE, CA - BURBANK, CA - WOODBRIDGE, VA

Welcome to Seaside!

Come by our booth and receive special show pricing!

For the Discriminating Ham



SEAPAC SEMINARS

FRIDAY

1:00PM The Science of Great Audio
Riverview AB&C

Bob Heil K9EID
Chip Margelli K7JA

SATURDAY

10:00AM D-Star (Digital Smart
Technologies for Amateur Radio)
Seaside A&B

Ken Wilhelmi N7QQU

10 Best PR Ideas for Ham Radio
Riverview A

Allen Pitts W1AGP
ARRL Media & PR Manager

11:00AM Building Your Own Equipment
Seaside C

Jeff Damm WA7MLH

Emergency Management-Oregon
Riverview B

Vincent Van Der Hyde K7VV

Getting Into Digital
Riverview C

Ed Clulow N7TL

1:00PM ARRL FORUM
Seaside A&B

Jim Fenstermaker K9JF
William Sawders K7ZM

Emergency Preparedness
Seaside C

Rose Bottle
American Red Cross

Amateur Radio Training
Riverview A

Delvin Buntun N7QMT

SKY-WARN Pendleton
Riverview B

Alan Polan KE4TRR
Meteorologist NWS

Amateur Television in Oregon
Riverview C

Ed Mellnik WB2QHS
Dave Gettman KA7WOF

3:00PM HF Verticals-New Ideas
Seaside A&B

Ken Glanzer K7GCO

NTS Training-Message Handling
Seaside C

Kristin Tomson K7KWT

Ham Radio & The Law
Riverview A

Phil Kane K2ASP
ARRL Counsel

Portable Antennas
Riverview B

Bud Drummond W3FF
BuddiPole Antennas

Making Field Day a Success
Riverview C

Lisa Bloomquist KE7HPW
P.I.O. for Clark County ARC